

Tris work unit

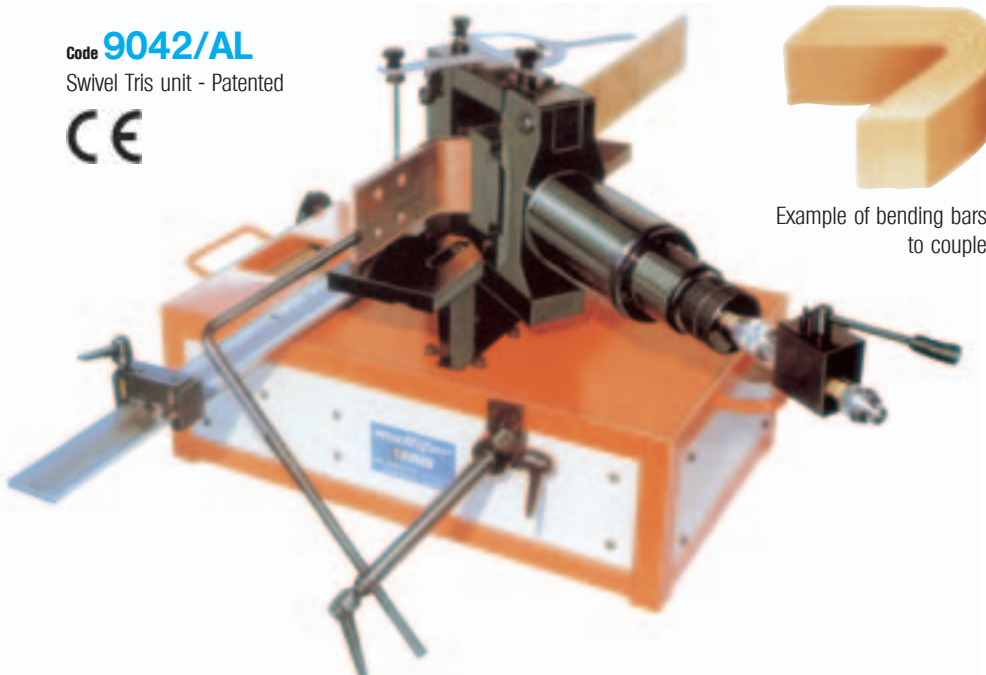
9042 - 9042/AL

It is suitable for small and large quantities.
It is very fast and extremely easy to use.



Punching, bending and cutting
Copper bars, metal profiles
and din-rails

Code **9042/AL**
Swivel Tris unit - Patented



Characteristics:

- Power:** 200 kN
- Max. Working pressure:** 700 Bars
- Stroke:** 50 mm
- Adjustable stroke:** 40 mm
- Amount of oil required for full stroke:** lt. 0,180.
- Dimensions**
- Length:** 850 mm
- Width:** 600 mm
- Height:** 500 mm
- Weight:** Kg 90
- Supplied with 1-meter ruler and protection carter.

9042 TRIS WORK UNIT can be used with all MULTIFOR pumps and control units. This unit is extremely versatile for its various operations. This TRIS WORK UNIT is composed by a simple-acting hydraulic cylinder, which has:

- a **practical system for changing tools**
- a **hinged tool frame** which allows simple introduction and removal of bars
- a **millimetric adjustment on the piston**, which regulates the stroke of the tools and which allows the repetition of the working without mistakes.
- a **protractor** for reading angle of bend of the bars (on request). Once set up, the unit can repeat the work cycle without checking every time lengths and angles.

These characteristics are patented. In order to achieve the maximum working precision, as well as to save time, the tooling is mounted on a workbench, which has been **designed specially** to be rational and practical in operation. It has all the necessary adjustments and references in order to position quickly the work pieces, avoiding measurements and engravings.

9042/AL SWIVEL TRIS WORK UNIT is used with all MULTIFOR pumps and control units.

It has the same characteristics of the TRIS 9042, but in horizontal position it can swivel on a vertical pin. In that way the bar remains stationary on its support surface, holding fewer places in the working area.

Tris work unit

9044 - 9045 - 9045V - 9046

Coupled Tris cylinders 9044

For demanding tasks or mass production, this special workbench is available. It uses two cylinders to avoid unnecessary changes of tooling, allowing the realisation of punching and bending with a considerable reduction in time and labour costs. Cylinders have the same characteristics of the TRIS 9042.

Size: mm 940x600x720 h.

Weight: Kg 122

Supplied with 1-meter ruler.

9045

It has the same characteristics of the Unit 9042 and 9042/AL with horizontally fixed position. Reduced in its dimensions, it is lighter and economic. It uses standard tools. It is supplied with 1-meter ruler.

Not suggested for punching operations.

Dimensions

Length: mm 700

Width: mm 600

Height: mm 500

Weight: Kg 77

9045/V

It has the same characteristics of the TRIS UNIT 9042. Its cylinder is vertically fixed.

USED ONLY FOR CUTTING AND PUNCHING OPERATIONS.

It uses the same tools of the TRIS 9042. It has reduced dimensions and weight. It is supplied with 1-meter ruler.

Dimensions

Width: mm 530

Width complete with 1-meter ruler: mm 1.310

Height: mm 720

Weight: Kg 67

9046

It is larger and more powerful than all other Tris units are and it is used for the working of superior bars. It is possible to realize special tools for punching four holes in one operation.

Characteristics:

Power: 300 kN

Max. Working pressure: 700 Bars

Stroke: 65 mm

Adjustable stroke: 50 mm

Amount of oil required for full stroke: lt 0,300

IT PUNCHES bars up to 15 mm thickness

IT CUTS bars up to 160 x 15 mm

IT BENDS bars up to 200x20 mm

ON REQUEST, WE CAN REALIZE SPECIAL PUNCHES FOR PARTICULAR WORKS.

Dimensions

Length: mm 1200

Width: mm 700

Height: mm 520

Weight: Kg 192

Supplied with 1 meter ruler and with adapters which allows the use of the 9042 standard tools.

Code **9044**

Coupled Tris cylinders



Code **9045**



Code **9045/V**

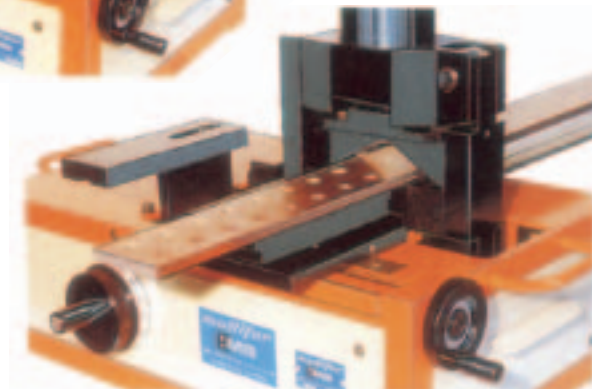
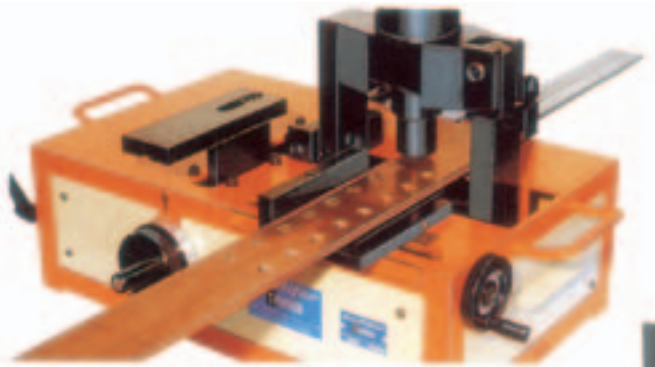


Code **9046**



Tris work unit

9042 - 9042/AL



Assembly example of the flat bar bender tool art. 9153

IT BENDS

Bars of copper, aluminium, steel etc. with thickness from 3 to 12 mm and maximum width 120 mm
On request, tools for 160 mm bars
*** IN 5 SECONDS**

IT PUNCHES

Bars of copper, aluminium, steel etc. with maximum thickness 12 mm
- Round punches from \varnothing 5 mm to \varnothing 25 mm
- Oval punches from 7 x 13 mm to 18 x 25 mm

For thicker material to 12 mm, please contact our Technical Department.
It is possible to achieve equidistant punching on bars of maximum width 120 mm.

The holes are obtained using special punches, which have the automatic extraction from the bar.

*** IN 4 SECONDS**

IT CUTS

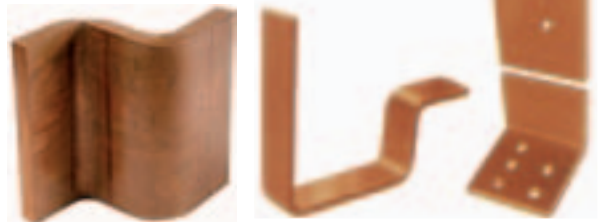
Bars of copper, aluminium, steel etc. with thickness from 5 mm to 12 mm and maximum width 120 mm.
For widths of more than 120 mm and thickness superior to 12 mm please contact our Technical Department

*** IN 3 SECONDS**

*** Times are approximately, for unit already tooled and connected to the electric control unit.**

Examples of bar bending

200x20



Bar with bevelled angle

Example of bar bended with flat bar bender

Example of bending bars to couple